

ABSTRACT:

A controllable amplifier arrangement is described, the arrangement comprising

- a first differential amplifier stage having a first and a second output branch,
- a second differential amplifier stage which is coupled to the first output branch of the first differential amplifier stage and has at least a first and a second output branch, at which a first current in the first output branch of the first differential amplifier stage is controllably divided into partial currents,
- a third differential amplifier stage which is coupled to the second output branch of the first differential amplifier stage and has at least a first and a second output branch, at which a second current in the second output branch of the first differential amplifier stage is controllably divided into partial currents,
- a first load impedance coupled to one of the first output branches of the second differential amplifier stage for generating a first output voltage from the partial current flowing in said one of the first output branches of the second differential amplifier stage, and
- a second load impedance coupled to one of the first output branches of the third differential amplifier stage for generating a second output voltage from the partial current flowing in said one of the first output branches of the third differential amplifier stage,

wherein the first and the second load impedance are bridged to a predetermined part by at least one of the second output branches of the second and third differential amplifier stages, respectively.

A predetermined minimal gain, i.e. a predetermined minimal value of the gain factor, can thereby be adjusted in a simple and reliable manner.

Fig. 1